

1 **Claim Amendment Summary**

2 **Claims pending**

3 • At time of the Action: Claims 1-48.
4 • After this Response: Claims 40-48.

5 **Canceled or Withdrawn claims:** 1-39.

6 **Amended claims:** 47.

7 **New claims:** none.

8

9 **Claims:**

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11 Claims 1-19 are canceled.

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14 40. (Previously Presented) A method facilitating similarity recognition of
15 a digital signal, the method comprising:

16 obtaining a digital signal; and
17 deriving a recognition value representative of the digital signal such that
18 perceptually distinct digital signals result in recognition values that are
19 approximately independent of one another and perceptually similar digital signals
20 result in proximally similar recognition values, wherein deriving a recognition
21 value includes:

22 transforming a digital signal into a digital signal transform;
23 quantizing the digital signal transform;
24 geometric-region-growing the digital signal transform;
25 generating the recognition value of the digital signal.

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2 41. (Previously Presented) A method as recited in claim 40 further
3 comprising:

4 pseudorandomly segmenting the digital signal into one or more segments;
5 for one or more of the segments, repeating the transforming, the quantizing,
6 and the geometric-region-growing, wherein these repeated tasks are performed on
7 a segment rather than the entire signal;
8 combining one or more of the segments.

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10 42. (Previously Presented) A method as recited in claim 40 further
11 comprising comparing the recognition value with another recognition value
12 derived from another digital signal.

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14 43. (Previously Presented) A method as recited in claim 40, wherein the
15 recognition value is a hash value.

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17 44. (Previously Presented) A method as recited in claim 40, wherein the
18 digital signals are digital image signals.

19
20 45. (Previously Presented) One or more computer-readable media having
21 computer-executable instructions embodied therein, that, when executed by one or
22 more processors, cause the one or more processors to perform acts comprising:

23 obtaining a digital signal; and
24 deriving a recognition value representative of the digital signal such that
25 perceptually distinct digital signals result in recognition values that are

1 approximately independent of one another and perceptually similar digital signals
2 result in proximally similar recognition values, wherein deriving a recognition
3 value comprises:

4 transforming a digital signal into a digital signal transform;
5 quantizing the digital signal transform;
6 geometric-region-growing the digital signal transform;
7 generating the recognition value of the digital signal.

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9 46. (Previously Presented) One or more media as recited in claim 45
10 further comprising computer-executable instructions configured to cause the one
11 or more processors to perform acts comprising:

12 pseudorandomly segmenting the digital signal into one or more segments;
13 for one or more of the segments, repeating the transforming, the quantizing,
14 and the geometric-region-growing, wherein these repeated tasks are performed on
15 a segment rather than the entire signal;
16 combining one or more of the segments.

1 47. (Currently Amended) A computer configured to perform acts
2 comprising:

3 obtaining a digital signal; and
4 deriving a recognition value representative of the digital signal such that
5 perceptually distinct digital signals result in recognition values that are
6 approximately independent of one another and perceptually similar digital signals
7 result in proximally similar recognition values, wherein deriving a recognition
8 value ~~comprising~~ comprises:

9 transforming a digital signal into a digital signal transform;
10 quantizing the digital signal transform;
11 geometric-region-growing the digital signal transform;
12 generating the recognition value of the digital signal.

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14 48. (Previously Presented) A computer as recited in claim 47, the acts
15 further comprising:

16 pseudorandomly segmenting the digital signal into one or more segments;
17 for one or more of the segments, repeating the transforming, the quantizing,
18 and the geometric-region-growing, wherein these repeated tasks are performed on
19 a segment rather than the entire signal;
20 combining one or more of the segments.